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DATE: July 2, 2002

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TO: Atten: J.C.W.S.

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Fax #: 703-746-9195

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Client/Matter #: 12964.23

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MESSAGE: Re: U.S. Patent Application No. 09/806,080
Filed: June 1, 2001
Entitled: Genes of the 1-deoxy-D-xylulose biosynthesis pathway

Dear Sirs:

We filed a Request for Corrected Filing Receipt on July 19, 2001, to date, we have not received the corrected filing receipt. Enclosed please find the following documents:

1. Copy of Request for Corrected Filing Receipt
2. Copy of Filing Receipt showing correction
3. Copy of title page of the application as originally filed
4. Copy of stamped returned postcard from PTO

Your prompt attention to this matter is greatly appreciated.


Lydia Epps-Hilliard
Legal Assistant

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE RECD	ATTY DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/806,080	06/01/2001	1614	2020	12964.23		30	8

CONFIRMATION NO. 3364

FILING RECEIPT



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JUN 25 2001

HAYNES & BOONE LLP.

Date Mailed: 06/19/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Hassan Jomaa, Gieben, GERMANY;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/EP99/07055 09/22/1999

Foreign Applications

GERMANY 19843279.8 09/22/1998
GERMANY 19923567.8 05/22/1999

Projected Publication Date: N/A

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Early Publication Request: No

CODE	DATE	ACTION
RFF	8.29.01	AWAITING REFUND
IDS	9.1.01	PREPARE IDS

Title

BY: TJB 6/25/01

Genes of the 1-deoxy-d-xylulose biosynthesis pathway

Preliminary Class

514

WO 00/17233

PCT/EP99/07055

- 1 -

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Genes of the 1-deoxy-D-xylulose biosynthesis pathway

The present invention relates to DNA sequences which, when incorporated into the genome of viruses, eukaryotes and prokaryotes, modify isoprenoid biosynthesis and to a genetic engineering process for the production of these transgenic viruses, eukaryotes and prokaryotes. The invention also relates to a process for the identification of substances having herbicidal, antimicrobial, antiparasitic, antiviral, fungicidal, bactericidal action in plants and antimicrobial, antiparasitic, antimycotic, antibacterial and antiviral action in humans and animals.

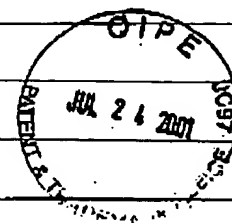
The biosynthesis pathway for the formation of isoprenoids via the classical acetate/mevalonate pathway and an alternative mevalonate-independent biosynthesis pathway, the deoxy-D-xylulose phosphate pathway is already known (Rohmer, M., Knani, M., Simonin, P., Sutter, B. and Sahn, H. (1993): *Biochem. J.* 295: 517-524).

It is, however, not known how and by which pathways it is possible to bring about a change in the isoprenoid concentration in viruses, eukaryotes and prokaryotes by means of the deoxy-D-xylulose phosphate pathway. Figure 1 shows this biosynthesis pathway.

DNA sequences are consequently provided which code for 1-deoxy-D-xylulase 5-phosphate synthase (DOXP synthase), 1-deoxy-D-xylulose 5-phosphate reductoisomerase (DOXP reductoisomerase) or the gcpE protein. All three genes are involved in isoprenoid biosynthesis.

COPY

DESCRIPTION OF PAPER	Request for Corrected Filing Receipt; copy of filing receipt with corrected noted in red ink; copy of the title page of the application as originally filed and this return postcard were in the USPTO on the date stamped hereon.		
APPLICANT	Hassan Jomaa		
SERIAL NO.	09/806,080	DATE FILED	June 1, 2001
ATTORNEY DOCKET NO.	12964.23		
TITLE	GENES OF THE 1-DEOXY-D-XYLULOSE BIOSYNTHESIS PATHWAY		
SENDER'S INITIALS	WBK/lkj/sk	DATE MAILED	July 19 2001 ✓



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